

# UNITED STATES PATENT AND TRADEMARK OFFICE



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/781,585	02/13/2001	Akira Ishida	P101201-00013	9722	
7590 01/03/2006  ARENT FOX KINTNER PLOTKIN & KAHN, PLLC			EXAMINER		
			YUN, EUGENE		
Suite 600 1050 Connecticut Avenue, N.W.		ART UNIT	PAPER NUMBER		
	OC 20036-5339		2682		
			DATE MAILED: 01/03/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Eugene Yun   2682		Application No.	Applicant(s)	_				
Eugene Yun   2682		09/781,585	ISHIDA, AKIRA					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations of time may be available under the provisions of 37 CPR 1.13(a). In no went, mayer, may septy the limited of the communication of 10 CPR 1.13(a) MONTHS from the mailing date of this communication after \$3 (b) MONTHS from the mailing date of this communication.  Failuse for poly whith the sat or elaborated period for equivalent by apply and will expire \$30 (b) MONTHS from the mailing date of this communication.  Failuse for poly whith the sat or elaborated period for regively liby stable, cause the application become ARANDONE (3 u S C, 91). Any reply received by the Office later than three morths after the mailing date of this communication, even if timely flied, may reduce any cered gather than adjustment. Set 37 CPR 1.704(b).  Status  1) Responsive to communication(s) filed on	Office Action Summary	Examiner	Art Unit					
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of tilm may be available under the provisions of 37 CPR 1.33(s). In no event, however, may a reply be limitely filed after SIx (s) MOTHS from the mailing date of this communication.  If NO period for raply is specified above, the maining date of this communication.  If NO period for raply is specified above, the maining atter five model will apply and will occine SIX (s) MOTHS from the maining date of this communication. Any reply received by the Office later than three menths after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.794(b).  Status  1) Responsive to communication(s) filed on	·	ppears on the cover sheet with	the correspondence address					
1) Responsive to communication(s) filed on	WHICHEVER IS LONGER, FROM THE MAILING I  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili	DATE OF THIS COMMUNICA .136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTH tte, cause the application to become ABAN	TION.  be timely filed  from the mailing date of this communication.  DONED (35 U.S.C. § 133).					
2a)  This action is FINAL. 2b) This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-3 is/are pending in the application.  4a) Of the above claim(s)  is/are withdrawn from consideration.  5)  Claim(s)  is/are allowed.  7)  Claim(s)  is/are rejected.  7)  Claim(s)  is/are objected to.  8)  Claim(s)  is/are objected to.  8)  Claim(s)  is/are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filed on 13 February 2001 is/are: a)  accepted or b)  objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1.  Certified copies of the priority documents have been received.  2.  Certified copies of the priority documents have been received in Application No.  3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.	Status							
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Attachment(s)	* See the attached detailed Office action for a lis	t of the certified copies not rec	eived.					
Attachment(s)								
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1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
Notice of Draftsperson's Patent Drawing Review (PTO-948)   Paper No(s)/Mail Date   Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)   Paper No(s)/Mail Date   Statement(s) (PTO-152)   Other:	3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	5) D Notice of Inform						

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Application/Control Number: 09/781,585

Art Unit: 2682

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/12/2005 has been entered.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hakkinen et al. (US 2001/0023185) in view of Nakano (5,933,782).

Referring to Claim 1, Hakkinen teaches a radio base station (fig. 2) for performing a radio communication with a plurality of mobile stations with a space division multiplex method (paragraphs [0015] and [0022]).

Hakkinen does not teach transmitting, when the radio base station starts a communication with a mobile station by the space division multiplex method, an instruction to stop performing a diversity reception to the mobile station. Nakano teaches transmitting, when the radio base station starts a communication with a mobile

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station by the space division multiplex method (see col. 9, lines 18-24), an instruction to stop performing a diversity reception to the mobile station (see the row labeled (4) in fig. 16 and col. 9, lines 32-38), wherein the mobile station stops the diversity reception and performs a reception using one antenna (see col. 7, lines 42-57). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teachings of Nakano to said device of Hakkinen in order to maintain efficiency in RF communications and prevent the raising of bit rate.

Referring to Claim 2, Hakkinen also teaches a creation means for creating a piece of traffic channel assignment information after receiving a traffic channel assignment request from a mobile station (see paragraph [0033]);

An attachment means for attaching the diversity reception stop instruction to the piece of traffic channel assignment information (see paragraph [0040]) and

A transmission means for transmitting the piece of traffic channel assignment information with the diversity reception stop instruction, to the mobile station as a response to the traffic channel assignment request (see paragraph [0040]).

Referring to Claim 3, Hakkinen teaches a determination means for determining, after receiving a traffic channel assignment request from a mobile station, whether to allow the mobile station to space division multiplex with another mobile station which has communicated with the radio base station (see paragraphs [0015] and the second half of paragraph [0026]);

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a creation means for creating a piece of traffic channel assignment information when the determination means determines to allow the mobile station to space division multiplex with the other mobile station (see paragraph [0015]);

An attachment means for attaching the diversity reception stop instruction to the piece of traffic channel assignment information (see paragraphs [0022] and [0040]) and

A transmission means for transmitting the piece of traffic channel assignment information with the diversity reception stop instruction, to the mobile station as a response to the traffic channel assignment request, and transmitting the diversity reception stop instruction to the other mobile station through a traffic channel (see paragraphs [0033] and [0040]).

### Response to Arguments

- 4. Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.
- 5. Applicant's arguments filed 10/12/2005 have been fully considered but they are not persuasive.

The examiner points to the passage of col. 7, lines 42-57 of the Nakano reference to point that that the mobile station only has one antenna at all times. There is no indication in the Nakano reference that the mobile station uses multiple antennae at any point. Instead, the signals are spread and despread within the mobile station, not at the antenna. Therefore, it is obvious that the mobile station in the Nakano reference

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uses only one antenna during diversity reception and after the end of diversity

reception.

In addition, it is inherent to one skilled in the art that any wireless device can

perform a reception using one antenna when it is not performing a diversity reception.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Eugene Yun whose telephone number is (571) 272-

7860. The examiner can normally be reached on 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Doris To can be reached on (571)272-7629. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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